AMENDMENTS TO THE CLAIMS

Docket No.: 10001754-3

Please cancel claims 1-17 in the specification, and add claims 18-45 below.

18. (New) A multi-partition computer system, comprising:
a plurality of cell boards, with each cell board including at least one main processor;
and

a service processor that is connected to each of the cell boards;

wherein each partition includes at least one cell board, each partition is prevented from accessing memory of a different partition, the service processor can command the operations of the partitions, and the service processor can reset a partition.

- 19. (New) The computer system of claim 18, wherein:
 each partition is running an operating system that is independent of the other
 partitions.
- 20. (New) The computer system of claim 18, wherein: the service processor communicates with the cell boards via at least one USB format bus.
 - 21. (New) The computer system of claim 18, wherein: each cell board may be replaced while the computer system is on-line.
 - 22. (New) The computer system of claim 18, wherein: the service processor manages configuration of the partitions.

23. (New) A multi-partition computer system, comprising:

a plurality of cell boards, with each cell board including at least one main processor; and

a service processor that is connected to each of the cell boards;

wherein each partition includes at least one cell board, and the service processor manages operations of the partitions, and each partition is prevented from accessing memory of a different partition, and

the service processor monitors power requirements and determines whether a new component may be added to the system based upon the power required for the new component.

- 24. (New) The computer system of claim 23, wherein: the service processor can command the operations of the cell boards.
- 25. (New) A multi-partition computer system, comprising:
 a plurality of cell boards, with each cell board including at least one main processor;
 and

a service processor that is connected to each of the cell boards;

wherein each partition includes at least one cell board, the service processor manages operations of the partitions, each partition is prevented from accessing memory of a different partition, and the service processor monitors log events.

- 26. (New) The computer system of claim 25, wherein: the service processor displays selected log events to a user.
- 27. (New) A multi-partition computer system, comprising:
 a plurality of cell boards, with each cell board including at least one main processor;
 and

a service processor that is connected to each of the cell boards;

wherein each partition includes at least one cell board, the service processor manages operations of the partitions, each partition is prevented from accessing memory of a different partition, and the service processor monitors status of the cells.

28. (New) The computer system of claim 27, wherein: the service processor facilitates JTAG scan testing of the computer system.

- 29. (New) The computer system of claim 27, wherein: the service processor displays the status of the cells to a user.
- 30. (New) The computer system of claim 27, wherein: the service processor monitors environmental condition of the cells.
- 31. (New) A multi-partition computer system, comprising:
 a plurality of cell boards, with each cell board including at least one main processor;
 and

a service processor that is connected to each of the cell boards;

wherein each partition includes at least one cell board, the service processor manages operations of the partitions, each partition is prevented from accessing memory of a different partition, and the service processor updates firmware resident in the cells.

32. (New) A method for operating a computer system having a plurality of partitions and a plurality of cell boards, with each cell board including at least one main processor, wherein each partition includes at least one cell board, the method comprising:

providing a service processor that is connected to each of the cell boards; managing operations of the partitions via the service processor; preventing each partition from accessing memory of a different partition; commanding the operations of the partitions via the service processor; and resetting at least one partition via the service processor.

- 33. (New) The method of claim 32, further comprising: running an operating system on each partition that is independent of the other partitions.
- 34. (New) The method of claim 32, further comprising: using at least one USB format bus to provide communications between the service processor and the cell boards.

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35. (New) The method of claim 32, further comprising: replacing at least one cell board while the computer system is on-line.

- 36. (New) The method of claim 32, further comprising: managing the configuration of the partitions via the service processor.
- 37. (New) The method of claim 32, wherein: maintaining security for the computer system via the service processor; wherein the service processor limits access to authorized users.
- 38. (New) A method for operating a computer system having a plurality of partitions and a plurality of cell boards, with each cell board including at least one main processor, wherein each partition includes at least one cell board, the method comprising: providing a service processor that is connected to each of the cell boards; managing operations of the partitions via the service processor; preventing each partition from accessing memory of a different partition; monitoring the power requirements via the service processor; and determining, via the service processor, whether a new component may be added to the system based upon the power required for the new component.
 - 39. (New) The method of claim 38, further comprising: commanding the operations of the cell boards via the service processor.
- 40. (New) A method for operating a computer system having a plurality of partitions and a plurality of cell boards, with each cell board including at least one main processor, wherein each partition includes at least one cell board, the method comprising: providing a service processor that is connected to each of the cell boards; managing operations of the partitions via the service processor; preventing each partition from accessing memory of a different partition; and monitoring log events via the service processor.
 - 41. (New) The method of claim 40, further comprising: displaying selected log events to a user, via the service processor.

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42. (New) A method for operating a computer system having a plurality of partitions and a plurality of cell boards, with each cell board including at least one main processor, wherein each partition includes at least one cell board, the method comprising: providing a service processor that is connected to each of the cell boards; managing operations of the partitions via the service processor; preventing each partition from accessing memory of a different partition; and monitoring the status of the cells via the service processor.

- 43. (New) The method of claims 42, further comprising: displaying the status of the cells to a user via the service processor.
- 44. (New) The method of claim 42, further comprising: monitoring the environmental condition of the cells via the service processor.
- 45. (New) A method for operating a computer system having a plurality of partitions and a plurality of cell boards, with each cell board including at least one main processor, wherein each partition includes at least one cell board, the method comprising: providing a service processor that is connected to each of the cell boards; managing operations of the partitions via the service processor; preventing each partition from accessing memory of a different partition; and updating firmware resident in the cells via the service processor.